

WEST**End of Result Set**

L6: Entry 2 of 2

File: USPT

May 29, 2001

US-PAT-NO: 6238917
 DOCUMENT-IDENTIFIER: US 6238917 B1

TITLE: Asymmetric hammerhead ribozymes

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|------------|-------|----------|---------|
| Hendry; Philip | Leichhardt | | | AUX |
| McCall; Maxine J. | Putney | | | AUX |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE | CODE |
|--|---------|-------|----------|---------|------|------|
| Commonwealth Scientific Industrial Research Organization | Dickson | | | AUX | 03 | |

APPL-NO: 9/ 156828 [PALM]
 DATE FILED: September 18, 1998

PARENT-CASE:

This application is a continuation of PCT International Application No. PCT/AU97/00210, filed Apr. 2, 1997, designating the United States of America which is a continuation-in-part of U.S. patent application Ser. No. 08/627,033, filed Apr. 2, 1996 now abandoned.

INT-CL: [7] A61 K 31/708, A61 K 31/712, C07 H 21/00, C12 N 5/10, C12 Q 1/68

US-CL-ISSUED: 435/325; 435/6, 435/9131, 435/375, 536/243, 536/2431, 536/2432, 536/245
 US-CL-CURRENT: 435/325; 435/375, 435/6, 435/91.31, 536/24.3, 536/24.31, 536/24.32,
536/24.5

FIELD-OF-SEARCH: 435/6, 435/91.31, 435/375, 435/325, 435/358, 435/365, 435/419,
 435/252.3, 435/252.33, 435/254.2, 514/44, 536/24.5, 536/24.3, 536/24.31, 536/24.32

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|----------------|-----------------|---------|
| <input checked="" type="checkbox"/> 5149796 | September 1992 | Rossi et al. | 536/232 |
| <input checked="" type="checkbox"/> 5254678 | October 1993 | Haseloff et al. | 536/232 |
| <input checked="" type="checkbox"/> 5334711 | August 1994 | Sproat | 536/245 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|---------------|---------|-------|
| 93/23057 | November 1993 | WOX | |
| 93/23569 | November 1993 | WOX | |

OTHER PUBLICATIONS

Denman et al. "Different activity of trans-acting hammerhead ribozymes targeted to β -amyloid peptide precursor mRNA by altering the symmetry of helices I and III" Arch. Biochem. Biophys. 323 (1): 71-78, Oct. 20, 1995.

ART-UNIT: 165

PRIMARY-EXAMINER: Schwartzman; Robert A.

ASSISTANT-EXAMINER: Larson; Thomas G.

ATTY-AGENT-FIRM: White; John P. Cooper & Dunham LLP

ABSTRACT:

This invention is directed to a compound having the formula: ##STR1##

as defined in the detailed description. The compound may be covalently linked to a delivery agent. The invention also includes a composition which comprises the compound in association with an acceptable carrier. The invention also includes a method of cleaving an RNA target sequence which comprises contacting a target sequence with the compound as described above. Further, a method of treating a disease in man or animals associated with a particular RNA which comprises administrating to the man or animal the compound. Further, the invention also includes a diagnostic reagent which comprises the compound.

18 Claims, 7 Drawing figures